

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number  
**WO 2005/039618 A1**

(51) International Patent Classification<sup>7</sup>: **A61K 38/17,**  
C07K 14/82

Molecolare Cellulare Anim, ale, Via Camerini, 5, I-62032  
Camerino (MC) (IT).

(21) International Application Number:  
PCT/EP2004/011161

(74) Agents: **BANFI, Paolo** et al.; Via Plinio, 63, I-20129 Mi-  
lano (IT).

(22) International Filing Date: 6 October 2004 (06.10.2004)

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
MI2003A 001942 9 October 2003 (09.10.2003) IT

(71) Applicant (*for all designated States except US*): **INDENA**  
S.p.A. [IT/IT]; Viale Ortles, 12, I-20139 Milano (IT).

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **AMICI, Augusto**  
[IT/IT]; Dipartimento di Biologia Molecolare Cellulare,  
An imale, Via Camerini, 5, 62032 Camerino (MC) (IT).  
**CAVALLO, Federica** [IT/IT]; Dipartimento di Scienze  
Cliniche e Biologiche del, l'Università degli Studi di  
Torino, A.S.O.S. Luigi Gonzaga-Reg. Gonzole, 10,  
I-10143 Orbassano (TO) (IT). **FORNI, Guldo** [IT/IT];  
Dipartimento di Scienze Cliniche e Biologiche, dell'Uni-  
versità degli Studi di Torino, A.S.O.S. Luigi Gonzaga  
- Reg. Gonzole, 10, I-10143 Orbassano (TO) (IT).  
**MARCHINI, Cristina** [IT/IT]; Dipartimento di Biologia

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

WO 2005/039618 A1

(54) Title: p185<sup>neu</sup>-ENCODING DNA AND THERAPEUTICAL USES THEREOF

(57) Abstract: Plasmids containing sequences encoding different fragments of p185<sup>neu</sup> oncoprotein, able to induce an immune re-  
sponse against tumours expressing oncogenes of the ErbB family, and pharmaceutical compositions thereof.